***Nervous System Guided Notes***

In order for humans to survive, they have to constantly monitor the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Sense organs interact with the nervous system to allow you to see, smell, touch, hear, and taste.

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a change in your environment that you react to.

Parts of the nervous system:

* Central Nervous System (CNS)
  + Brain
    - Cerebrum- controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, thinking, feeling, movement
    - Cerebellum- controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - Brain stem- connects brain stem to spinal cord; controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ functions (breathing, heart beat)
  + Spinal Cord
    - Connects brain to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ throughout your body
    - Connected to the brain by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Peripheral Nervous System- the nerves found throughout the body
* Sensory nerves- receive info from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (like heat/cold) and send it to the CNS; send messages TO brain
* Motor nerves- send signals to your muscles that allow you to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; send messages FROM brain
* Includes both \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ responses
  + Autonomic Nervous System- controls movement of heart, stomach, intestines, and glands (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
    - Conserves and stores \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - Responds quickly to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (“fight or flight”)
  + Voluntary Nervous System- monitors movement and functions that can be controlled \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - Controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles/muscles for speech and senses

Parts of the neuron

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- take information to the cell body
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- where the nucleus is located
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- contains genetic information for the neuron
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- takes information away from the cell body
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- fatty material surrounding axons
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- where two nerves meet

